

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 07045393  
PUBLICATION DATE : 14-02-95

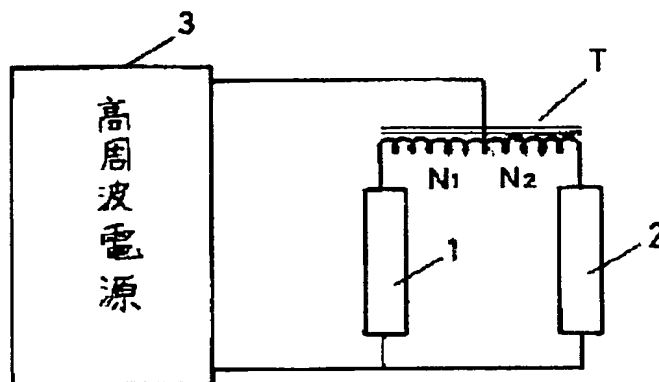
APPLICATION DATE : 27-07-93  
APPLICATION NUMBER : 05185399

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INT.CL. : H05B 41/392 H05B 41/02 H05B 41/24

TITLE : DISCHARGE LAMP LIGHTING DEVICE



ABSTRACT : PURPOSE: To reduce a difference between the light outputs of respective discharge lamps by connecting plural discharge lamps in parallel with each other through a balancer, and forming a balancer so that a difference between inductances of two coils thereof is reduced.

CONSTITUTION: A discharge lamp lighting device is provided with a high frequency power supply 3 for supplying the high frequency power to plural discharge lamps 1, 2 in parallel and a control unit for modulating this output simultaneously, and the discharge lamps 1, 2 are modulated continuously. At this stage, the discharge lamps 1, 2 are connected to the output of the power supply 3 in parallel with each other through a balancer T so as to reduce a difference between the outputs both the lamps 1, 2. In this balancer T, a primary coil  $N_1$  and a secondary coil  $N_2$  are wound up alternately to equalize the magnetic fluxes passing through the two coils  $N_1$ ,  $N_2$  to each other and reduce a difference between the inductance components. Consequently, a difference between the light output of plural discharge lamps in a low luminous flux area can be reduced.

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